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RAW SEQUENCE LISTING

DATE: 08/13/2001
TIME: 09:51:12

PATENT APPLICATION: US/09/529,962

Input Set : A:\06501-058001.TXT
Output Set: N:\CRF3\08132001\I529962.raw

ENTERED

ENTERED

ENTER

```
 4 <110> APPLICANT: Ota, Toshio
 5        Nishikawa, Tetsuo
 6        Salamov, Asaf
 7        Isogai, Takao
 9 <120> TITLE OF INVENTION: METHOD FOR SCREENING FULL-LENGTH cDNA
10        CLONES
12 <130> FILE REFERENCE: 06501-058001
14 <140> CURRENT APPLICATION NUMBER: 09/529,962
15 <141> CURRENT FILING DATE: 2000-12-18
17 <150> PRIOR APPLICATION NUMBER: JP 9/289982
18 <151> PRIOR FILING DATE: 1997-10-22
20 <150> PRIOR APPLICATION NUMBER: PCT/JP98/04772
21 <151> PRIOR FILING DATE: 1998-10-21
23 <160> NUMBER OF SEQ ID NOS: 18
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
27 <210> SEQ ID NO: 1
28 <211> LENGTH: 30
29 <212> TYPE: RNA
30 <213> ORGANISM: Artificial Sequence
32 <220> FEATURE:
33 <223> OTHER INFORMATION: Oligo-capping linker sequence
35 <400> SEQUENCE: 1
36 agcaucgagu cggccuuguu ggccuacugg                                30
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 42
40 <212> TYPE: DNA
41 <213> ORGANISM: Artificial Sequence
43 <220> FEATURE:
44 <223> OTHER INFORMATION: Oligo(dT) adapter primer sequence
46 <400> SEQUENCE: 2
47 gcggctgaag acggcctatg tggccttttt tttttttttt tt                 42
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 32
51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial Sequence
54 <220> FEATURE:
55 <223> OTHER INFORMATION: Random adapter primer sequence
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58 <222> LOCATION: (1)...(32)
59 <223> OTHER INFORMATION: n = A,T,C or G
61 <400> SEQUENCE: 3
62 gcggctgaag acggcctatg tggccnnnnn nc                            32
64 <210> SEQ ID NO: 4
65 <211> LENGTH: 880
66 <212> TYPE: DNA
67 <213> ORGANISM: Homo sapiens
69 <220> FEATURE:
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      72 <223> OTHER INFORMATION: n = A,T,C or G

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      76 gccgccactg ccactcccgc tctctcagcg ccgccgtcgc caccgccacc gccactgcca     120
      77 ctaccaccgt ctgagtctgc agtcccgaga tcccagccat catgtccata gagaagatct     180
      78 gggcccggga gatcctggac tcccgcggga accccacagt ggaggtggat ctctatactg     240
      79 ccaaaggtcc tttccgggct gcagtgccca gtggagcctc tacgggcatc tatgaggccc     300
      80 tggagctgag ggatggagac aaacagcgtt acttaggcaa aggtgtcctg aaggcagtgg     360
      81 accacatcaa ctccaccatc gcgccagccc tcatcagctc aggtctctct gtggtggagc     420
      82 aagagaaact ggacaacctg atgctggagt tggatgggac tgagaacaaa tccaagtttg     480
W--> 83 gggccaatcc atcctgggtg tgtctctggc cgtgtgtaag gcangggcaa ctgaacngga     540
W--> 84 actgcccctg tatcgccaca ttgctcagct tggncgggaa ctcanacctc atcctgcctg     600
W--> 85 ttgccggcct tcaacgtgat caatggttgg cttctcatgc ctggcaacaa anctggccat     660
W--> 86 tgcnggaatt ttcatgatcc tccccnttgg gaaactgaaa aactttccgg aatgcccntc     720
W--> 87 caactaagtt gcaaaaggtc taccnatacc ccccaagggg aattcctcca agggaacaaa     780
W--> 88 tncccgggaa aggaatgccc cccaattntt nggggaata aaaggtgggc tttgcccccc     840
W--> 89 cattttcctg gaaaaaacna tnaaaaccct tgggaaactt                          880

      91 <210> SEQ ID NO: 5
      92 <211> LENGTH: 645
      93 <212> TYPE: DNA
      94 <213> ORGANISM: Homo sapiens
      96 <220> FEATURE:
      97 <221> NAME/KEY: misc_feature
      98 <222> LOCATION: (1)...(645)
      99 <223> OTHER INFORMATION: n = A,T,C or G

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     103 ctcctgtcgc cttcgcctcc taatccctag ccactatgcg tgagtgcatc tccatccacg     120
W--> 104 ttggccaggc tggtgtccan attggcaatg cctgctggga gctctactgc ctggaacacg     180
     105 gcatccagcc cgatggccag atgccaagtg acaagaccat tgggggagga gatgactcct     240
W--> 106 tcaacacctt cttcagtgag acgggcgctg gcaancacgt gccccgggct gtgtttgtag     300
     107 acttggaacc cacagtcatt gatgaagttc gcactggcac ctaccgccag ctcttccacc     360
W--> 108 ctgagcagct catcncaggc aaggaagatg ctgccaataa ctatgcccga gggcactaca     420
W--> 109 ccattggcaa ggagatcatt gaccttgtgt tggaccgaat tcgcaagctg gctgaccant     480
W--> 110 gcaccggtct tcanggcttc ttggtttttcc acagctttgg tgggggaact ggttctgggt     540
     111 tcacctccct gctcatggaa cgtctctcag ttgattatgg caagaaatcc aagctggagt     600
W--> 112 tctccattta cccagcaccc cnggtttccn cngctgtant tngaa                     645

     114 <210> SEQ ID NO: 6
     115 <211> LENGTH: 820
     116 <212> TYPE: DNA
     117 <213> ORGANISM: Homo sapiens
     119 <220> FEATURE:
     120 <221> NAME/KEY: misc_feature
     121 <222> LOCATION: (1)...(820)
     122 <223> OTHER INFORMATION: n = A,T,C or G

     124 <400> SEQUENCE: 6
     125 ctttttcgc aacgggtttg ccgccagaac acaggtgtcg tgaaaactac ccctaaaagc     60
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```
      126 caaaatggga aaggaaaaga ctcatatcaa cattgtcgtc attggacacg tagattcggg     120
      127 caagtccacc actactggcc atctgatcta taaatgcggt ggcatcgaca aaagaaccat     180
      128 tgaaaaattt gagaaggagg ctgctgagat gggaaagggc tccttcaagt atgcctgggt     240
      129 cttggataaa ctgaaagctg agcgtgaacg tggtatcacc attgatatct ccttgtggaa     300
      130 atttgagacc agcaagtact atgtgactat cattgatgcc ccaggacaca gagactttat     360
      131 caaaaacatg attacaggga catctcaggc tgactgtgct gtcctgattg ttgctgctgg     420
      132 tgttggtgaa tttgaagctg gtatctccaa gaatgggcag acccgagagc atgcccttct     480
W--> 133 ggcttacaca ctgggtgtga aacaactaat tgtcggtgtt aacaaaatgg attcactgan     540
W--> 134 ccaccctaca gccagaagaa atatgangaa attgttaagg aagtcagcac ttacattaag     600
W--> 135 aaaattggct acaaccccga cacagtanca tttgtgccaa tttctggttg gaatggtgac     660
W--> 136 aacatgctgg aaccaantgc taacatgcct tggttccagg gatggaaaat cccccnttaa     720
W--> 137 ggatggcnat gccattggaa cccccctgct tgaaggctct ggantgcatc ctancaccaa     780
W--> 138 ctccttcaaa ttgaaaaacc ccttgcnccc gcctccncca                           820
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      141 <211> LENGTH: 788
      142 <212> TYPE: DNA
      143 <213> ORGANISM: Homo sapiens
      145 <220> FEATURE:
      146 <221> NAME/KEY: misc_feature
      147 <222> LOCATION: (1)... (788)
      148 <223> OTHER INFORMATION: n = A,T,C or G OK
      150 <400> SEQUENCE: 7
      151 gaggctgagg cagtggctcc ttgcacagca gctgcacgcg ccgtggctcc ggatctcttc      60
      152 gtctttgcag cgtagcccga gtcggtcagc gccggaggac ctcagcagcc atgtcgaagc     120
      153 cccatagtga agccgggact gccttcattc agacccagca gctgcacgca gccatggctg     180
      154 acacattcct ggagcacatg tgccgcctgg acattgattc accacccatc acagcccgga     240
      155 acactggcat catctgtacc attggcccag cttcccgatc agtggagacg ttgaaggaga     300
      156 tgattaagtc tggaatgaat gtggctcgtc tgaacttctc tcatggaact catgagtacc     360
      157 atgcggagac catcaagaat gtgcgcacag ccacggaaag ctttgcttct gaccccatcc     420
      158 tctaccggcc cgttgctgtg gctctagaca ctaaaggacc tgagatccga actgggctca     480
      159 tcaagggcag cggcactgca gaggtggagc tgaagaatgg agccactctc aaaatcacgc     540
      160 tggataatgc ctacatggaa aagtgtgacg agaacatcct gtggctggac tacaagaaca     600
W--> 161 tctgcaaggt ggtggaagtg ggcaacaaga tctacgtgga tgatgggctn atttctctcc     660
W--> 162 aggtgaacac aaaggtgccg acttcctggg tgacngangt ggaaaatggt ggctccttgg     720
W--> 163 gcncaagaaa ggtgtgaact cctggggct gctgtggant tgcctgctgt gtcngaaaaa     780
      164 gacatcca                                                            788
      166 <210> SEQ ID NO: 8
      167 <211> LENGTH: 608
      168 <212> TYPE: DNA
      169 <213> ORGANISM: Homo sapiens
      171 <220> FEATURE:
      172 <221> NAME/KEY: misc_feature
      173 <222> LOCATION: (1)... (608)
      174 <223> OTHER INFORMATION: n = A,T,C or G OK
      176 <400> SEQUENCE: 8
      177 acagcctggc tcctttgagt atgaatatgc catgcgctgg aaggcactca ttgagatgga      60
W--> 178 gaagcagcag caggaccaag tggaccgcaa catcnaggag gctcgtgaga agctggagat     120
      179 ggagatggaa gctgcacgcc atgagcacca ggtcatgcta atgagacagg atttgatgag     180
W--> 180 gcgccaagaa gaacttcgga ggatggaaga gctgcacaac caagangtgc aaaaacgaaa     240
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W--> 181 gcaactggag ctcaggcagg aggaanagcg caggcgccgt gaagaanaga tgcggcggca    300
W--> 182 gcaagaagaa atgatgcggc gacngcagga aggattcaag ggaaccttcc ctgatgcgag    360
W--> 183 agagcaggag attcggatgg gtcngatggc tatgggaggt gctatgggca taaacnacag    420
     184 atgtgccatg ccccctgctc ctgtgccagc tggtacccca gctcctccag gacctgccac    480
W--> 185 tattatgccg gatggaactt tgggattgac cccaccnaca actgaacgct ttggtcnggc    540
W--> 186 tgctacnatg gaangaattg gggcaattgg tggaactcct cctgcattcn accgtgcagc    600
     187 tcctggga                                                             608
     189 <210> SEQ ID NO: 9
     190 <211> LENGTH: 608
     191 <212> TYPE: DNA
     192 <213> ORGANISM: Homo sapiens
     194 <220> FEATURE:
     195 <221> NAME/KEY: misc_feature
     196 <222> LOCATION: (1)...(608)
     197 <223> OTHER INFORMATION: n = A,T,C or G
     199 <400> SEQUENCE: 9
     200 acagcctggc tcctttgagt atgaatatgc catgcgctgg aaggcactca ttgagatgga     60
W--> 201 gaagcagcag caggaccaag tggaccgcaa catcnaggag gctcgtgaga agctggagat    120
     202 ggagatggaa gctgcacgcc atgagcacca ggtcatgcta atgagacagg atttgatgag    180
W--> 203 gcgccaagaa gaacttcgga ggatggaaga gctgcacaac caagangtgc aaaaacgaaa    240
W--> 204 gcaactggag ctcaggcagg aggaanagcg caggcgccgt gaagaanaga tgcggcggca    300
W--> 205 gcaagaagaa atgatgcggc gacngcagga aggattcaag ggaaccttcc ctgatgcgag    360
W--> 206 agagcaggag attcggatgg gtcngatggc tatgggaggt gctatgggca taaacnacag    420
     207 atgtgccatg ccccctgctc ctgtgccagc tggtacccca gctcctccag gacctgccac    480
W--> 208 tattatgccg gatggaactt tgggattgac cccaccnaca actgaacgct ttggtcnggc    540
W--> 209 tgctacnatg gaangaattg gggcaattgg tggaactcct cctgcattcn accgtgcagc    600
     210 tcctggga                                                             608
     212 <210> SEQ ID NO: 10
     213 <211> LENGTH: 813
     214 <212> TYPE: DNA
     215 <213> ORGANISM: Homo sapiens
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     218 <221> NAME/KEY: misc_feature
     219 <222> LOCATION: (1)...(813)
     220 <223> OTHER INFORMATION: n = A,T,C or G
     222 <400> SEQUENCE: 10
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     224 gcaacttgga aaaagaaacc acacatcgat attgtgccaa tgccttcaaa cttcacaggt    120
     225 tgcctatccc tcgtccaggt gaagttttgg gattagttgg aactaatggt attggaaagt    180
     226 caactgcttt aaaaatttta gcaggaaaac aaaagccaaa ccttggaaag tacgatgatc    240
     227 ctcctgactg gcaggagatt ttgacttatt tccgtggatc tgaattacaa aattacttta    300
     228 caaagattct agaagatgac ctaaaagcca tcatcaaacc tcaatatgta gaccagattc    360
     229 ctaaggctgc aaaggggaca gtgggatcta ttttggaccg aaaagatgaa acaaagacac    420
     230 aggcaattgt atgtcagcag cttgatttaa cccacctaaa agaacgaaat gttgaagatc    480
     231 tttcaggagg agagttgcag agatttgctt gtgctgtcgt ttgcatacag aaagctgata    540
     232 ttttcatgtt tgatgagcct tctagttacc tagatgtcaa gcagcgttta aaggctgcta    600
     233 ttactatacg atctctaata aatccagata gatatatcat tgtggtggaa catgatctaa    660
     234 gtgtattaga ctatctctcc gacttcatct gctgtttata tggtgtacca agcgcctatg    720
W--> 235 gaattgtcac tatgcctttt agtgttagaa aaggcataaa cnttttttgg atgggtatgt    780
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     239  <211> LENGTH: 655
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     241  <213> ORGANISM: Homo sapiens
     243  <220> FEATURE:
     244  <221> NAME/KEY: misc_feature
     245  <222> LOCATION: (1)...(655)
     246  <223> OTHER INFORMATION: n = A,T,C or G  OK
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     250  actcaccgcc ctcgccgccg caccatggac gcccccaggc aggtggtcaa ctttgggcct   120
     251  ggtcccgcca agctgccgca ctcagtgttg ttagagatac aaaaggaatt attagactac   180
     252  aaaggagttg gcattagtgt tcttgaaatg agtcacaggt catcagattt tgccaagatt   240
     253  attaacaata cagagaatct tgtgcgggaa ttgctagctg ttccagacaa ctataaggtg   300
     254  attttttctgc aaggaggtgg gtgcggccag ttcagtgctg tccccttaaa cctcattggc   360
     255  ttgaaagcag gaaggtgtgc ggactatgtg gtgacaggag cttggtcagc taaggccgca   420
     256  gaagaagcca agaagtttgg gactataaat atcgttcacc ctaaacttgg gagttataca   480
W--> 257  aaaattccag atccaagcac ctggaacctc aacccanatg cctcctacgt gttttattgc   540
W--> 258  ncaaatgaaa cggtgcatgg tgttganttt gactttatac ccnatgtcaa gggaacanta   600
W--> 259  ctggtttgtg acattttcct ccaacttcct gtccaancca attgnatgtt tccaa        655
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     262  <211> LENGTH: 599
     263  <212> TYPE: DNA
     264  <213> ORGANISM: Homo sapiens
     266  <220> FEATURE:
     267  <221> NAME/KEY: misc_feature
     268  <222> LOCATION: (1)...(599)
     269  <223> OTHER INFORMATION: n = A,T,C or G   OK
     271  <400> SEQUENCE: 12
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     273  gcgacgcggc tgagggcttc tcgtcggggt cggggctgca gccgtcatgc cggggatagt   120
     274  ggagctgccc actctagagg agctgaaagt agatgaggtg aaaattagtt ctgctgtgct   180
     275  taaagctgcg gcccatcact atggagctca atgtgataag cccaacaagg aatttatgct   240
W--> 276  ctgccgctgg gaanagaaag atccgaggcg gtgcttagag gaaggcaaac tggtcaacaa   300
     277  gtgtgctttg gacttcttta ggcagataaa acgtcactgt gcagagcctt ttacagaata   360
     278  ttggacttgc attgattata ctggccagca gttatttcgt cactgtcgca aacagcaggc   420
W--> 279  aaagtttgac nagtgtgtgc tggacaaact gggctgggtg cggcctgacc tgggaaaact   480
W--> 280  gtcaaaggtc accaaagtga aaacagatcn acctttaccg ganaatccct atcactcaag   540
W--> 281  aacaagaacg gatcccagcc ctganatcna aggaaatctg cancctgcca cacatggca    599
     283  <210> SEQ ID NO: 13
     284  <211> LENGTH: 597
     285  <212> TYPE: DNA
     286  <213> ORGANISM: Homo sapiens
     288  <220> FEATURE:
     289  <221> NAME/KEY: misc_feature
     290  <222> LOCATION: (1)...(597)
     291  <223> OTHER INFORMATION: n = A,T,C or G  OK
     293  <400> SEQUENCE: 13
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L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:62 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:83 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:84 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:88 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:106 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:133 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:135 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:138 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:181 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
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L:183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:203 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9
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L:235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:276 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:279 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
L:281 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12
```

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L:302 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:303 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14